[45] Nov. 6, 1973

[54]	ELECTRONIC MUSICAL INSTRUMENT KEYING ASSEMBLY PROVIDING A MINIMUM OF ELECTRICAL NOISE				
[75]	Inventor:	Carl S. Nelson, Jr., Los Angeles, Calif.			
[73]	Assignee:	Opsonar Organ Corporation, Bronx, N.Y.			
[22]	Filed:	Apr. 24, 1972			
[21]	Appl. No.: 247,056				
[52]	U.S. Cl 84/1.01, 84/DIG. 7, 200/159 B, 307/116, 340/365 R				
[51]	Int. Cl				
[58]	Field of Search				
	84/1.1, 1.27, DIG. 7, 423, 427, 433, 439, 440;				
		R, 159 A, 159 B; 338/69; 307/116;			

		•	
[56]	References Cited		
	UNITED	STATES PATENTS	
3,657,460	4/1972	Cutler	84/1.01
3,715,447	2/1973	Ohno	84/DIG. 7
2,873,637	2/1959	Herold	84/1.04
2,497,661	2/1950	Dome	84/1.01
2,575,230	11/1951	Mork	
2,959,693	11/1960	Meyer	
3,041,568	6/1962	Bissonette et al	
3,328,507	6/1967	Peterson	

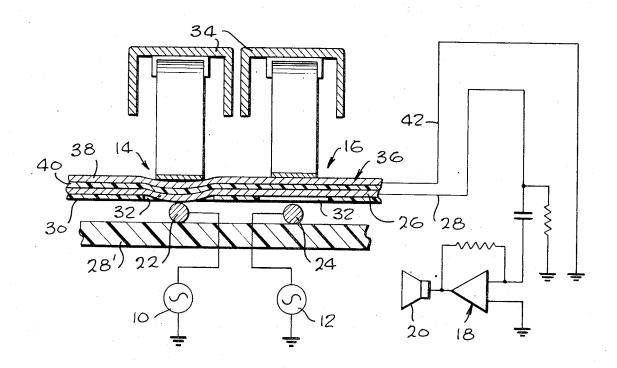
3,626,350 3,643,041 3,657,459	12/1971 2/1972 4/1972	Suzuki et al
3,668,337 3,694,559	6/1972 9/1972	Peterson et al

Primary Examiner—Richard B. Wilkinson Assistant Examiner—Stanley J. Witkowski Attorney—Seymour A. Scholnick

[57] ABSTRACT

A switch for an electronic organ or other electronic instrument, which produces a minimum of electrical noise even when low level electrical signals pass through the switch for later high gain amplification. The switch includes a cylindrical wire connected to a tone generator, and a strip of conductive elastic material which can be deflected against the wire and that spreads onto the wire to gradually increase the contact area therewith and decrease the contact resistance. An electrically conductive lubricant is applied to the wire and elastic strip so that as the elastic material of the strip spreads under pressure, the spreading portions smoothly slide outwardly. An insulator strip is fastened to the elastic conductive strip, and another elastic conductive strip is fastened to the insulator and is grounded, to shield the first conductive strip from stray electrical currents.

5 Claims, 10 Drawing Figures



340/365 R